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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

KUBO, M. et al.

Serial No. 10/601/307

Filed: 23 June 2003

For: LIQUID CRYSTAL DISPLAY DEVICE



Atty. Ref.: 4034-36

Group: 2871

Examiner:

\* \* \* \* \*

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

- ☒ 1. **PTO-1449 Pursuant to 37 CFR 1.97(b)**  
[within 3 months of filing or prior to 1st Office Action] N/C
- ☐ 2. **Statement Pursuant to 37 CFR 1.97(c)**  
[before Final Office Action or Allowance] N/C
- ☐ 3. **Fee Payment Pursuant to 37 CFR 1.97(c)**  
[before Final Office Action or Allowance] \$180.00
- ☐ 4. **Pursuant to 37 CFR 1.97(d)**  
[before Issue Fee payment] \$180.00

The following are submitted in the above-identified application in compliance with 37 C.F.R. §§ 1.97 and 1.98:


- ☒ 5. A list of documents on Form PTO-1449 together with copies of each identified document and a translation or a concise explanation of each non-English language document is enclosed herewith.
  - ☒ a) U.S. Patent 6,384,889 is equivalent to JP Laid-Open Patent Publication Nos. 2000-47217 and 2000-47253. U.S. Patent Application No. 2001/0024257 is equivalent to JP Publication No. 2002-55343. U.S. Patent 5,666,179 is equivalent to JP Publication 6-301036 and U.S. Patent 6,384,889 is equivalent to JP Publication 2000-47253

This paper is submitted in accordance with:

- ☒ 6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]
- ☐ 7. 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier]; and
- ☐ a) The required Statement made in item 9 below; or
- ☐ b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.
- ☐ 8. 37 CFR §1.97(d): [before issue fee payment]; and
- ☐ a) The fee (\$180.00) required by 37 CFR §1.17(p) is submitted herewith; and
- ☐ b) The required Statement is stated in item 9 below.
- ☐ 9. Statement under 37 CFR 1.97(e)
- ☐ a) The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement (each item contained in this IDS was the first citation of that item by a foreign patent office in a counterpart foreign application which occurred no more than three months prior to the filing of this IDS); or
- ☐ b) No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement, after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
- ☒ 10. Please charge all deficiency fees associated with the submission of this Information Disclosure Statement and any other fees applicable to this application to Deposit Account No. 14-1140. An original and one (1) copy of this document are enclosed.

Respectfully submitted,  
NIXON & VANDERHYE P.C.

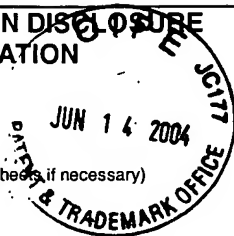
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INFORMATION DISCLOSURE  
CITATION

(Use several sheets if necessary)



ATTY. DOCKET NO.

4034-36

APPLICANT

KUBO, M. et al.

FILING DATE

23 June 2003

SERIAL NO.

10/601/307

GROUP

2871

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,666,179	9-1997	Koma			
	6,384,889	5-2002	Myachi et al.			
	5,594,570	1-1997	Hirata et al.			
	6,097,464	8-2000	Liu			
	6,175,398	1-2001	Yamada et al.			
	6,201,592	3-2001	Terashita et al.			
	6,266,122	7-2001	Kishimoto et al.			
	6,335,780	1-2002	Kurihara et al.			
	2001-0024257	9-2001	Kubo et al.			
	2002-0036744	3-2002	Kubo et al.			
	2002-0036740	3-2002	Kubo et al.			
	2003-0107695	6-2003	Kubo et al.			
	5,408,345	4-1995	Mitsui et al.			
	6,330,047	12/2001	Kubo et al.			
	6,195,140	2/2001	Kubo et al.			
	6,222,599	4/2001	Yoshida et al.			
	6,384,887	5/2002	Yasuda et al.			
	6,512,564	1/2003	Yoshida et al.			
	6,542,212	4/2003	Yoshida et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
10-301114 A	11-1998	JP			partial
6-301036 A	10-1994	JP			X
6-75238 A	3-1994	JP			X
2000-47217	02/2000	JP			X
11-242225	09/1999	JP			
0 884 626 A2	12/1998	EP			
2000-305110	11/2000	Japan			
2000-47253	2000	JP			X

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)


*Examiner	Date Considered
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

<b>INFORMATION DISCLOSURE CITATION</b>	ATTY. DOCKET NO. <b>4034-36</b>	SERIAL NO. <b>10/601/307</b>
	APPLICANT <b>KUBO, M. et al.</b>	
(Use several sheets if necessary)	FILING DATE <b>23 June 2003</b>	GROUP <b>2871</b>

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,668,651	9/1997	Yamada et al.			
	5,726,728	3/1998	Kondo et al.			
	6,061,117	5/2000	Horie et al.			
	6,141,077	10/2000	Hirata et al.			
	6,339,462	1/2002	Kishimoto et al.			
	5,182,664	1/1993	Clerc			
	5,602,662	2/1997	Rosenblatt et al.			
	5,477,358	12/1995	Rosenblatt et al.			
	5,363,294	11/1994	Yamamoto et al.			
	5,558,927	9/1996	Aruga et al.			
	5,636,043	6/1997	Uemura et al.			
	2002-0149728	10/2002	Kubo et al.			
	2002-0075436	6-2002	Kubo et al.			
	6,661,488	12-2003	Takeda et al.			
	5,512,336	4-1996	Yamahara			
	5,434,687	7-1995	Kawata et al.			
	6,169,593	1-2001	Kanaya et al.			
	6,256,082	7-2001	Suzuki et al.			
	5,995,176	11/1999	Sibahara			
	5,179,456	1/1993	Aizawa et al.			
	5,309,264	5/1994	Lien et al.			
	5,673,092	9/1997	Horie et al.			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		7-281176 A	10-1995	JP			partial	
		10-186330 A	7-1998	JP			partial	
		08-292423	11/1996	JP			Partial	
		06-043461	2/1994	JP			Partial	
		09-258266	10/1997	JP			Partial	
		03-209440	9/1991	JP			Partial	
		04-318816	11/1992	JP			Partial	
		04-139402	5/1992	JP			Partial	

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

*Examiner	Date Considered
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